

(FILE 'USPAT' ENTERED AT 15:10:59 ON 29 APR 1998)
L1 2 S 395/286/CCLS AND FULL DUPLEX AND HALF DUPLEX
L2 1 S L1 AND COMMUNICATION (P) CHANNEL

=> d 11 1-

1. 5,509,126, Apr. 16, 1996, Method and apparatus for a dynamic, multi-speed bus architecture having a scalable interface; Florin Oprescu, et al., 395/307, 286 [IMAGE AVAILABLE]
2. 4,358,825, Nov. 9, 1982, Control circuitry for data transfer in an advanced data link controller; Shikun Kyu, et al., 395/286; 364/222.2, 228.3, 229, 229.1, 229.3, 232.8, 238.3, 238.5, 240.8, 240.9,

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1. 5,509,126, Apr. 16, 1996, Method and apparatus for a dynamic, multi-speed bus architecture having a scalable interface; Florin Oprescu, et al., 395/307, 286 [IMAGE AVAILABLE]

2. 4,358,825, Nov. 9, 1982, Control circuitry for data transfer in an advanced data link controller; Shikun Kyu, et al., 395/286; 364/222.2, 228.3, 229, 229.1, 229.3, 232.8, 238.3, 238.5, 240.8, 240.9,

13. 4,291,177 Sep. 22, 1981, General-purpose electronic telephone station set; Robert V. Anderson, et al., 379/93.17; 345/168; 364/918.7, 919.4, 926, 926.9, 927, 927.2, 927.4, 927.61, 927.62, 927.8, 927.83, 928, 928.2, 928.3, 929, 929.2, 931, 931.4, 932, 932.62, 932.8, 942.8, 943, 948.2, 948.22, 949, 959.1, 964, 965, 965.5, DIG.2; 375/222; 379/354, 440 [IMAGE AVAILABLE]

14. 4,007,443, Feb. 8, 1977, Hand-held interactive terminal; Michael Arnold Bromberg, et al., 364/709.16; 178/17.5; 341/23, 24, 27; 345/168, 172; 364/918, 918.4, 918.9, 919.2, 919.4, 922, 922.3, 926, 927, 927.2, 927.3, 927.5, 928, 928.3, 933.9, 935, 943, 943.2, 943.9, 944.7, 948.1, 965, DIG.1; 379/37, 93.18 [IMAGE AVAILABLE]

=> d 1-

✓ 1. 5,732,625, Mar. 31, 1998, Method and system for transmitting signals in a printing machine; Horst Klingler, et al., 101/248, 181 [IMAGE AVAILABLE]

2. 5,678,176, Oct. 14, 1997, Direct inward dial telephone number recognition in a land mobile radio system; Billy G. Moon, 455/15 [IMAGE AVAILABLE]

3. 5,627,876, May 6, 1997, Call priority override in a land mobile radio system; Billy G. Moon, 370/341; 455/426 [IMAGE AVAILABLE]

4. 5,625,870, Apr. 29, 1997, Fraud control for radio fleets in a land mobile radio system; Billy G. Moon, 455/411; 370/328; 455/67.1, 528 [IMAGE AVAILABLE]

5. 5,557,606, Sep. 17, 1996, Routing of voice communication at a cell site in a land mobile radio system; Billy G. Moon, et al., 370/296, 336,

ABSTRACT:

A . . . a printing machine. The transmission channel includes a rotational transformer. The rotational transformer utilized to transmit the signals is of **single channel** design. Data collisions resulting from the simultaneous transmission of messages are avoided through detection by the computers. Accordingly, both computers. . .

SUMMARY:

BSUM(3)

The . . . particularly, to a method and system for serial, bidirectional signal transmission between two stations in a printing machine over a **single transmission channel**.

SUMMARY:

BSUM(6)

If . . . by providing more than one transmission channel, that is to say in each case one transmission and one reception channel (**full duplex**). However, in the case of a rotational transformer designed according to the transformer principle, this means that a further pair. . . the air gap tolerance etc., considerably complicates the design of such a transformer. In order to avoid data collisions in **single-channel**, bidirectional transmission systems, it is also known to construct one station as a master and the second station as a. . .

SUMMARY:

BSUM(8)

In . . . a station in a rotating component within a printing machine in which data is exchanged serially and bidirectionally over a **single channel** transmission system. During the transmission of a message the signals on the **single channel** transmission system are detected by the sending station in each case and compared with the signals being transmitted to verify. . .

SUMMARY:

BSUM(9)

In . . . a station in a rotating component within a printing machine in which data is exchanged serially and bidirectionally over a **single channel**. The system comprises a rotational transformer including a rotating portion having a rotary winding and mounted to the rotating component. . .

SUMMARY:

BSUM(10)

The . . . transmission of information between stations in a printing machine with the greatest possible degree of protection against interference over a **single transmission channel**.

DETDESC:

DETD(2)

FIG. . . . circuits (not illustrated). A transmit driver 8 and a receive driver 9 are connected to a first universal asynchronous receiver/transmitter (**UART**) 11 of the first computer 2 for the transmission and reception of data. Since the transmit and receive drivers 8,9. . . the output of the transmit driver 8 is simultaneously connected to the input of the receive driver 9. The first **UART** 11, which enables bidirectional serial data exchange over one channel, allows for the connection of the output of the transmit driver 8 to the input of the receive driver 9. The first **UART** 11 is a commonly utilized device functioning as a **full-duplex** or **half-duplex**, serial communication line controller and data interface.

CLAIMS:

CLMS(1)

What . . .

a station in a rotating component within a printing machine in which data is exchanged serially and bidirectionally over a **single channel** transmission system, wherein during the transmission of a message the signals on the **single channel** transmission system are detected by the sending station as the signals are being transmitted to the receiving station in each. . .

CLAIMS:

CLMS(5)

5. . . . a station in a rotating component within a printing machine in which data is exchanged serially and bidirectionally over a **single channel** comprising: a rotational transformer including a rotating portion having a rotary winding and mounted to the rotating component and a